

Product Information Sheet

M541

Murashige & Skoog (MS) Modified Basal Medium

Properties

Form:	Powder
Appearance:	White to Yellow
Application:	Plant Tissue Culture
Solubility:	Soluble in Water
Typical Working Concentration:	5.69 g/L
Storage Temp:	2-6 °C
Storage Temp of Stock Solution:	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.
Other Notes:	Contains the macro- and micronutrients and vitamins as described by Murashige and Skoog (1962) with the following exceptions: Potassium Phosphate Monobasic is omitted, Sodium Phosphate Monobasic is added, and Ferrous Sulfate and Disodium EDTA are replaced with Ferric Sodium EDTA. Approx. pH = 4.75 ± 0.5

Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Chloride, Anhydrous	332.2
Cobalt Chloride•6H ₂ O	0.025
Cupric Sulfate•5H ₂ O	0.025
Ferric Sodium EDTA	36.7
Magnesium Sulfate, Anhydrous	180.7
Manganese Sulfate•H ₂ O	16.9
Molybdcic Acid (Sodium Salt)•2H ₂ O	0.25
Potassium Iodide	0.83

Potassium Nitrate	1900
Sodium Phosphate Monobasic	300
Zinc Sulfate•7H ₂ O	8.6
Adenine Hemisulfate	150
Casein, Enzymatic Hydrolysate	1000
Glycine (Free Base)	2
myo-Inositol	100
Nicotinic Acid (Free Acid)	5
Pyridoxine•HCl	1
Thiamine•HCl	0.5

Application Notes

Plant Tissue Culture Tested

References

Murashige, T and F Skoog. 1962. A revised medium for rapid growth and bioassays with tobacco tissue cultures. *Physiol. Plant.* 15: 473-497

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